

App. No. 09/736,988
Response Dated: March 8, 2005
Reply to Office Action of December 8, 2004

Amendments to the Claims:

Claim 1 (original): A computer-implemented method for automatically tuning ~~a size~~ of a TCP receive window, comprising:

- (a) determining a bandwidth of a network connection; and
- (b) automatically tuning the size of the TCP receive window based on ~~the~~ determined bandwidth.

Claim 2 (original): The method of Claim 1, wherein determining the bandwidth ~~of the~~ network connection, further comprises:

- (i) obtaining at least one attribute of a network connection device; and
- (ii) determining the bandwidth of the network connection from the at least one obtained attribute.

Claim 3 (original): The method of Claim 2, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises:

- (i) determining the size of the TCP receive window based on the determined bandwidth; and
- (ii) setting the size of the TCP receive window to the determined size.

Claim 4 (original): The method of Claim 3, wherein determining the size of the TCP receive window based on the determined bandwidth further comprises accessing the size of the TCP receive window from a look-up table.

Claim 5 (original): The method of Claim 2, wherein determining the at least one attribute of the network connection device further comprises determining a speed of the network connection device or a name of the network connection device.

Claim 6 (original): The method of Claim 1, further comprising:

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- (c) monitoring the network connection to determine if the network connection has changed; and
- (d) tuning the size of the TCP receive window if the network connection has changed.

Claim 7 (original): A computer-readable medium having computer-executable instructions for automatically tuning a size of a TCP receive window, comprising:

- (a) determining a throughput of a connection; and
- (b) tuning the size of the TCP receive window based on the determined throughput of the connection.

Claim 8 (original): The computer-readable medium of Claim 7, further comprising:

- (c) monitoring the throughput of the connection to determine if the throughput of the connection has changed; and
- (d) automatically tuning the size of the TCP receive window if the throughput of the connection has changed.

Claim 9 (original): The computer-readable medium of Claim 8, wherein determining the throughput of the connection, further comprises:

- (i) polling a network connection device for at least one attribute; and
 - (ii) receiving the at least one attribute from the network connection device;
- and
- (iii) determining the throughput of the connection from the at least one received attribute.

Claim 10 (original): The computer-readable medium of Claim 9, wherein automatically tuning the size of the TCP receive window based on the determined throughput further comprises:

- (i) looking up the size of the TCP receive window based on the determined throughput, and

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- (ii) setting the size of the TCP receive window to the looked up size.

Claim 11 (original): A system for automatically tuning a size of a receive window, comprising:

- (a) a processor and a computer-readable medium;
- (b) an operating environment stored on the computer-readable medium and executing on the processor;
- (c) a network connection device operating under the control of the operating environment; and
- (d) an automatic tuning device operating under the control of the operating environment and operative to perform actions, including:
 - (i) determining a bandwidth of the network connection; and
 - (ii) setting the size of the receive window based on the determined bandwidth.

Claim 12 (original): The system of Claim 11, wherein determining the bandwidth of the network connection device, further comprises:

- (1) obtaining at least one attribute of the network connection device; and
- (2) determining the bandwidth of the network connection device from the at least one attribute.

Claim 13 (original): The system of Claim 12, wherein obtaining the at least one attribute of the network connection device further comprises determining a speed of the network connection device or a name of the network connection device.

Claim 14 (original): The system of Claim 13, further comprising:

- (e) monitoring the network connection device to determine if the network connection device has changed; and
- (f) tuning the size of the receive window if the network connection device has changed.

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Claim 15 (new): The method of Claim 1, wherein automatically tuning the ~~size of~~ the TCP receive window based on the determined bandwidth further comprises determining the size of the TCP receive window from a look-up table based on the determined bandwidth.

Claim 16 (new): The method of Claim 1, wherein automatically tuning the ~~size of~~ the TCP receive window based on the determined bandwidth further comprises determining a current operating system and setting the size of the TCP receive window based on the determined bandwidth and the operating system.

Claim 17 (new): The method of Claim 2, wherein the at least one attribute is a ~~name~~ of a network connection device.

Claim 18 (new): The computer-readable medium of Claim 7, wherein tuning the size of the TCP receive window based on the determined throughput of the connection comprises sizing the TCP receive window based on a type of network connection device.

Claim 19 (new): The system of Claim 11, wherein automatically tuning the size of the TCP receive window based on the determined ~~bandwidth~~ further comprises determining the size of the TCP receive window by accessing a look-up table based on the determined bandwidth.

Claim 20 (new): The system of Claim 11, wherein automatically tuning the size of the TCP receive window based on the determined bandwidth further comprises determining a version of the operating environment executing on the processor and setting the size of the TCP receive window based on the determined bandwidth and the operating environment.